<210> 1834

<211> 20

<212> PRT

<213> Homo sapiens

<400> 1834

Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Thr Ser Ala Tyr

5 10 15

Ala Phe Phe Val

<210> 1835
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1835
Pro Lys Gly Lys Thr Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg
1   5   10   15

Glu Glu His Lys
            20

<210> 1836
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1836
Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
                5   10   15

Glu Val Pro Val
            20

<210> 1837
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1837
Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu
                5   10   15

Phe Ser Lys Lys
            20

<210> 1838
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1838
Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
                5   10   15

Trp Lys Thr Val
            20

<210> 1839
<211> 20

<212> PRT
<213> Homo sapiens

<400> 1839
Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Val Ser Gly Lys Glu
5 10 15

Lys Ser Lys Phe
20

<210> 1840
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1840
Trp Lys Thr Val Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
5 10 15

Lys Ala Asp Lys
20

<210> 1841
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1841
Lys Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp
5 10 15

Arg Glu Met Lys
20

<210> 1842
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1842
Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
5 10 15

Ala Lys Gly Gly
20

<210> 1843
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1843
Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys
5 10 15

Asp Pro Asn Ala
20

<210> 1844
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1844
Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
5 10 15

Pro Ser Gly Phe
20

<210> 1845
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1845
Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys
5 10 15

Ser Glu Phe Arg
20

<210> 1846
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1846
Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
5 10 15

Ser Thr Asn Pro
20

<210> 1847
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1847

Ser Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile
1 5 10 15

Gly Asp Val Ala
20

<210> 1848
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1848
Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
5 10 15

Glu Met Trp Asn
20

<210> 1849
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1849
Gly Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp
5 10 15

Ser Glu Lys Gln
20

<210> 1850
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1850
Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
5 10 15

Lys Ala Ala Lys
20

<210> 1851
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1851
Ser Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys
5 10 15

Tyr Glu Lys Asp
20

<210> 1852
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1852
Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
5 10 15

Lys Ser Lys Gly
20

<210> 1853
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1853
Tyr Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly
5 10 15

Ala Lys Gly Pro
20

<210> 1854
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1854
Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
5 10 15

Arg Lys Lys Val
20

<210> 1855
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1855
Ala Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp
5 10 15

Glu Glu Glu Glu

20

<210> 1856
<211> 20
<212> PRT
<213> Homo sapiens

<400> 1856
Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Gln Glu Glu Glu Glu Glu
1   5   10   15

Glu Glu Glu Glu
            20

<210> 1857
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 1857
agtgcgaatt cgggctgcgt gcaggagg 28

<210> 1858
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 1858
ggactcgagc tactgcaagt ctggtgtgga tg 32

<210> 1859
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 1859
agatgaattc acgcgtccgc gccgcgcggc gca 33

<210> 1860
<211> 31

<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 1860
agttctcgag tcacctccct gggccccttt g 31

<210> 1861
<211> 945
<212> DNA
<213> Homo sapiens

<400> 1861
atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt cacgcgtccg 420
cgccgcgcgg cgcaggggag gcgagaggcg ccccccggtg gagagcctga gccccgcgca 480
agtctggcgg cacctggcga gcggagccgg agtcgggctg gggaccgcgg ggttgaggcc 540
ggaccgcggc ggggtcgggg gagaaacgcg cgctgccctg gcacgggccc caacccccccg 600
gccgcgcgga atggtatggc ccggccggag ttaaggccgg ggggaggcgg cgagtcccgc 660
ggcggcggcg acgatggggc tgcgtgcagg aggaacgctg ggcagggccg gcgcgggtcg 720
gggggcgccc gaggggcccg ggccgagcgg cggcgcgcag ggcggcagca tccactcggg 780
ccgcatcgcc gcggtgcaca acgtgccgct gagcgtgctc atccggccgc tgccgtccgt 840
gttggacccc gccaaggtgc agagcctcgt ggacacgatc cgggaggacc cagacagcgt 900
gccccccatc gatgtcctct ggatcaaagg ggcccaggga ggtga 945

<210> 1862
<211> 822
<212> DNA
<213> Homo sapiens

<400> 1862
atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccagggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttccc 120
accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
gcgcttaacg ggcatcatcc cggtgacgtc atctcggtga cctggcaaac caagtcgggc 360
ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt cggctgcgt 420
gcaggaggaa cgctgggcag ggccggcgcg ggtcgggggg cgcccgaggg gcccgggccg 480
agcggcggcg cgcagggcgg cagcatccac tcgggccgca tcgccgcggt gcacaacgtg 540
ccgctgagcg tgctcatccg gccgctgccg tccgtgttgg accccgccaa ggtgcagagc 600
ctcgtggaca cgatccggga ggacccagac agcgtgcccc ccatcgatgt cctctggatc 660
aaaggggccc agggaggtga ctacttctac tcctttgggg gctgccaccg ctacgcggcc 720
taccagcaac tgcagcgaga gaccatcccc gccaagcttg tccagtccac tctctcagac 780
ctaagggtgt acctgggagc atccacacca gacttgcagt ag 822

<210> 1863

<211> 314
<212> PRT
<213> Homo sapiens

<400> 1863
Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
5 10 15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
20 25 30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
35 40 45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
50 55 60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
65 70 75 80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
85 90 95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
100 105 110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
115 120 125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Thr Arg Pro Arg Arg Ala Ala
130 135 140

Gln Gly Arg Arg Glu Ala Pro Pro Gly Gly Glu Pro Glu Pro Arg Ala
145 150 155 160

Ser Leu Ala Ala Pro Gly Glu Arg Ser Arg Ser Arg Ala Gly Asp Arg
165 170 175

Gly Val Glu Ala Gly Pro Arg Arg Gly Arg Gly Arg Asn Ala Arg Cys
180 185 190

Pro Gly Thr Gly Pro Asn Pro Pro Ala Ala Arg Asn Gly Met Ala Arg
195 200 205

Pro Glu Leu Arg Pro Gly Gly Gly Gly Glu Ser Arg Gly Gly Gly Asp
210 215 220

Asp Gly Ala Ala Cys Arg Arg Asn Ala Gly Gln Gly Arg Arg Gly Ser
225 230 235 240

Gly Gly Ala Arg Gly Ala Arg Ala Glu Arg Arg Arg Ala Gly Arg Gln
245 250 255

His Pro Leu Gly Pro His Arg Arg Gly Ala Gln Arg Ala Ala Glu Arg

260 265 270

Ala His Pro Ala Ala Ala Val Arg Val Gly Pro Arg Gln Gly Ala Glu
275 280 285

Pro Arg Gly His Asp Pro Gly Gly Pro Arg Gln Arg Ala Pro His Arg
290 295 300

Cys Pro Leu Asp Gln Arg Gly Pro Gly Arg
305 310

<210> 1864
<211> 273
<212> PRT
<213> Homo sapiens

<400> 1864
Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
5 10 15

Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
20 25 30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
35 40 45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
50 55 60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
65 70 75 80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
85 90 95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
100 105 110

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
115 120 125

Leu Ala Glu Gly Pro Pro Ala Glu Phe Gly Leu Arg Ala Gly Gly Thr
130 135 140

Leu Gly Arg Ala Gly Ala Gly Arg Gly Ala Pro Glu Gly Pro Gly Pro
145 150 155 160

Ser Gly Gly Ala Gln Gly Gly Ser Ile His Ser Gly Arg Ile Ala Ala
165 170 175

Val His Asn Val Pro Leu Ser Val Leu Ile Arg Pro Leu Pro Ser Val
180 185 190

Leu Asp Pro Ala Lys Val Gln Ser Leu Val Asp Thr Ile Arg Glu Asp
195 200 205

Pro Asp Ser Val Pro Pro Ile Asp Val Leu Trp Ile Lys Gly Ala Gln
210 215 220

Gly Gly Asp Tyr Phe Tyr Ser Phe Gly Gly Cys His Arg Tyr Ala Ala
225 230 235 240

Tyr Gln Gln Leu Gln Arg Glu Thr Ile Pro Ala Lys Leu Val Gln Ser
245 250 255

Thr Leu Ser Asp Leu Arg Val Tyr Leu Gly Ala Ser Thr Pro Asp Leu
260 265 270

Gln

<210> 1865
<211> 790
<212> DNA
<213> Homo sapiens

<400> 1865
ctgattccgc gactccttgg ccgccgctgc gcatggaaag ctctgccaag atggagagcg 60
gcggcgccgg ccagcagccc cagccgcagc cccagcagcc cttcctgccg cccgcagcct 120
gtttctttgc cacggccgca gccgcggcgg ccgcagccgc cgcagcggca gcgcagagcg 180
cgcagcagca gcagcagcag cagcagcagc agcagcaggc gccgcagctg agaccggcgg 240
ccgacggcca gccctcaggg ggcggtcaca agtcagcgcc caagcaagtc aagcgacagc 300
gctcgtcttc gcccgaactg atgcgctgca aacgccggct caacttcagc ggctttggct 360
acagcctgcc gcagcagcag ccggccgccg tggcgcgccg caacgagcgc gagcgcaacc 420
gcgtcaagtt ggtcaacctg ggctttgcca cccttcggga gcacgtcccc aacggcgcgg 480
ccaacaagaa gatgagtaag gtggagacac tgcgctcggc ggtcgagtac atccgcgcgc 540
tgcagcagct gctggacgag catgacgcgg tgagcgccgc cttccaggca ggcgtcctgt 600
cgcccaccat ctcccccaac tactccaacg acttgaactc catggccggc tcgccggtct 660
catcctactc gtcggacgag ggctcttacg acccgctcag ccccgaggag caggagcttc 720
tcgacttcac caactggttc tgaggggctc ggcctggtca ggccctggtg cgaatggact 780
ttggaagcag 790

<210> 1866
<211> 784
<212> DNA
<213> Homo sapiens

<400> 1866
ccgcgactcc ttggccgccg ctgcgcatgg aaagctctgc caagatggag agcggcggcg 60
ccggccagca gccccagccg cagccccagc agcccttcct gccgcccgca gcctgtttct 120
ttgccacggc cgcagccgcg gcggccgcag ccgccgcagc ggcagcgcag agcgcgcagc 180
agcagcagca gcagcagcag cagcagcagc aggcgccgca gctgagaccg gcggccgacg 240
gccagccctc agggggcggt cacaagtcag cgcccaagca agtcaagcga cagcgctcgt 300
cttcgcccga actgatgcgc tgcaaacgcc ggctcaactt cagcggcttt ggctacagcc 360
tgccgcagca gcagccggcc gccgtggcgc gccgcaacga gcgcgagcgc aaccgcgtca 420
agttggtcaa cctgggcttt gccacccttc gggagcacgt ccccaacggc gcggccaaca 480
agaagatgag taaggtggag acactgcgct cggcggtcga gtacatccgc gcgctgcagc 540

agctgctgga cgagcatgac gcggtgagcg ccgccttcca ggcaggcgtc ctgtcgccca 600
ccatctcccc caactactcc aacgacttga actccatggc cggctcgccg gtctcatcct 660
actcgtcgga cgagggctct tacgacccgc tcagccccga ggagcaggag cttctcgact 720
tcaccaactg gttctgaggg gctcggcctg gtcaggccct ggtgcgaatg gactttggaa 780
gcag 784

<210> 1867
<211> 789
<212> DNA
<213> Homo sapiens

<400> 1867
ttccgcgact ccttggccgc cgctgcgcat ggaaagctct gccaagatgg agagcggcgg 60
cgccggccag cagccccagc cgcagcccca gcagcccttc ctgccgcccg cagcctgttt 120
ctttgccacg gccgcagccg cggcggccgc agccgccgca gcggcagcgc agagcgcgca 180
gcagcagcag cagcagcagc agcagcagca gcagcaggcg ccgcagctga gaccggcggc 240
cgacggccag ccctcagggg gcggtcacaa gtcagcgccc aagcaagtca agcgacagcg 300
ctcgtcttcg cccgaactga tgcgctgcaa acgccggctc aacttcagcg gctttggcta 360
cagcctgccg cagcagcagc cggccgccgt ggcgcgccgc aacgagcgcg agcgcaaccg 420
cgtcaagttg gtcaacctgg gctttgccac ccttcgggag cacgtcccca acggcgcggc 480
caacaagaag atgagtaagg tggagacact gcgctcggcg gtcgagtaca tccgcgcgct 540
gcagcagctg ctggacgagc atgacgcggt gagcgccgcc ttccaggcag gcgtcctgtc 600
gcccaccatc tcccccaact actccaacga cttgaactcc atggccggct cgccggtctc 660
atcctactcg tcggacgagg gctcttacga cccgctcagc cccgaggagc aggagcttct 720
cgacttcacc aactggttct gaggggctcg gcctggtcag gccctggtgc gaatggactt 780
tggaagcag 789

<210> 1868
<211> 785
<212> DNA
<213> Homo sapiens

<400> 1868
tctgattccg cgactccttg gccgccgctg cgcatggaaa gctctgccaa gatggagagc 60
ggcggcgccg gccagcagcc ccagccgcag ccccagcagc ccttcctgcc gcccgcagcc 120
tgtttctttg ccacggccgc agccgcggcg gccgcagccg ccgcagcggc agcgcagagc 180
gcgcagcagc agcagcagca gcagcagcag caggcgccgc agctgagacc ggcggccgac 240
ggccagccct caggggggcgg tcacaagtca gcgcccaagc aagtcaagcg acagcgctcg 300
tcttcgcccg aactgatgcg ctgcaaacgc cggctcaact tcagcggctt tggctacagc 360
ctgccgcagc agcagccggc cgccgtggcg cgccgcaacg agcgcgagcg caaccgcgtc 420
aagttggtca acctgggctt tgccaccctt cgggagcacg tccccaacgg cgcggccaac 480
aagaagatga gtaaggtgga gacactgcgc tcggcggtcg agtacatccg cgcgctgcag 540
cagctgctgg acgagcatga cgcggtgagc gccgccttcc aggcaggcgt cctgtcgccc 600
accatctccc ccaactactc caacgacttg aactccatgg ccggctcgcc ggtctcatcc 660
tactcgtcgg acgagggctc ttacgacccg ctcagccccg aggagcagga gcttctcgac 720
ttcaccaact ggttctgagg ggctcggcct ggtcaggccc tggtgcgaat ggactttgga 780
agcag 785

<210> 1869
<211> 236
<212> PRT
<213> Homo sapiens

<400> 1869

Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
5 10 15
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
20 25 30
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
35 40 45
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro
50 55 60
Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys
65 70 75 80
Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu
85 90 95
Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu
100 105 110
Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
115 120 125
Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His
130 135 140
Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
145 150 155 160
Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
165 170 175
His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
180 185 190
Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
195 200 205
Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro
210 215 220
Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
225 230 235

<210> 1870
<211> 236
<212> PRT
<213> Homo sapiens

<400> 1870
Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
5 10 15
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
20 25 30
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
35 40 45
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro
50 55 60
Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys
65 70 75 80
Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu
85 90 95
Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu
100 105 110
Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
115 120 125

Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His
    130   135   140
Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
145   150   155   160
Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
                165   170   175
His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
            180   185   190
Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
        195   200   205
Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro
    210   215   220
Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
225   230   235

<210> 1871
<211> 237
<212> PRT
<213> Homo sapiens

<400> 1871
Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
                5   10   15
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
            20   25   30
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
        35   40   45
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala
    50   55   60
Pro Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His
65   70   75   80
Lys Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu
                85   90   95
Leu Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser
            100   105   110
Leu Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu
        115   120   125
Arg Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu
    130   135   140
His Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr
145   150   155   160
Leu Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp
                165   170   175
Glu His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro
            180   185   190
Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser
        195   200   205
Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser
    210   215   220
Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
225   230   235

<210> 1872
<211> 234
<212> PRT
<213> Homo sapiens

<400> 1872
Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
1   5   10   15
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
            20   25   30
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
        35   40   45
Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro Gln Leu
    50   55   60
Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys Ser Ala
65   70   75   80
Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu Met Arg
                85   90   95
Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu Pro Gln
            100   105   110
Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg Asn Arg
        115   120   125
Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His Val Pro
    130   135   140
Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu Arg Ser
145   150   155   160
Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu His Asp
                165   170   175
Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr Ile Ser
            180   185   190
Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro Val Ser
        195   200   205
Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro Glu Glu
    210   215   220
Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
225   230

<210> 1873
<211> 1353
<212> DNA
<213> Homo sapiens

<400> 1873
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<210> 1874
<211> 250
<212> PRT
<213> Homo sapiens

<400> 1874
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Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His Leu Val Pro Gly
35 40 45
Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln Pro Val Gln Lys
50 55 60
Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln Ile Ile Ile Gly
65 70 75 80
Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr Val Leu Val Gly
85 90 95
Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro Phe Trp Gly Gly
100 105 110
Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala Ala Glu Asn Gln
115 120 125
Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly Leu Asn Ile Val
130 135 140
Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe Ile Thr Asp Leu
145 150 155 160
Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala Trp
165 170 175
Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu Leu Val Phe Cys
180 185 190
Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His Phe Gly Cys Gln
195 200 205
Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile
210 215 220
Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro
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Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
245 250

<210> 1875

<211> 1155
<212> DNA
<213> Homo sapiens

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<210> 1876
<211> 384
<212> PRT
<213> Homo sapiens

<400> 1876
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20 25 30
Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
35 40 45
Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
50 55 60
Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
65 70 75 80
Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
85 90 95
Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
100 105 110
Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
115 120 125
Leu Ala Glu Gly Pro Pro Ala Glu Phe Met Thr Ser Ala Val Pro Val
130 135 140
Ala Asn Ser Val Leu Val Val Ala Pro His Asn Gly Tyr Pro Val Thr
145 150 155 160
Pro Gly Ile Met Ser His Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln

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Gly Gln Pro Val Gln Lys Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala
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Ile Gln Ile Ile Ile Gly Leu Ala His Ile Gly Leu Gly Ser Ile Met
    210                                     215                                     220
Ala Thr Val Leu Val Gly Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly
225                                     230                                     235                                     240
Phe Pro Phe Trp Gly Gly Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser
                        245                                     250                                     255
Val Ala Ala Glu Asn Gln Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser
                260                                     265                                     270
Leu Gly Leu Asn Ile Val Ser Ala Ile Cys Ser Ala Val Gly Val Ile
        275                                     280                                     285
Leu Phe Ile Thr Asp Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp
    290                                     295                                     300
Tyr Tyr Pro Tyr Ala Trp Gly Val Asn Pro Gly Met Ala Ile Ser Gly
305                                     310                                     315                                     320
Val Leu Leu Val Phe Cys Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser
                        325                                     330                                     335
Ser His Phe Gly Cys Gln Leu Val Cys Cys Gln Ser Ser Asn Val Ser
                340                                     345                                     350
Val Ile Tyr Pro Asn Ile Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu
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Pro Val Thr Ser Pro Pro Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
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<210> 1877
<211> 861
<212> DNA
<213> Homo sapiens

<400> 1877

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acttcagcag ttccggtggc caattctgtg ttggtggtgg caccccacaa tggttatcct 180
gtgaccccag gaattatgtc tcacgtgccc ctgtatccaa acagccagcc gcaagtccac 240
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<210> 1878
<211> 286
<212> PRT

<213> Homo sapiens

<400> 1878
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20 25 30
Ile Ala Gly Gln Ile Lys Leu Met Thr Ser Ala Val Pro Val Ala Asn
35 40 45
Ser Val Leu Val Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly
50 55 60
Ile Met Ser His Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His
65 70 75 80
Leu Val Pro Gly Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln
85 90 95
Pro Val Gln Lys Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln
100 105 110
Ile Ile Ile Gly Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr
115 120 125
Val Leu Val Gly Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro
130 135 140
Phe Trp Gly Gly Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala
145 150 155 160
Ala Glu Asn Gln Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly
165 170 175
Leu Asn Ile Val Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe
180 185 190
Ile Thr Asp Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr
195 200 205
Pro Tyr Ala Trp Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu
210 215 220
Leu Val Phe Cys Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His
225 230 235 240
Phe Gly Cys Gln Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile
245 250 255
Tyr Pro Asn Ile Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val
260 265 270
Thr Ser Pro Pro Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
275 280 285

<210> 1879
<211> 186
<212> DNA
<213> Homo sapiens

<400> 1879
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cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttcta 120
agtattcccc acccatatgc ctaccccgac tattatcctt acgcctgggg tgtgaaccct 180
ggaatg 186

<210> 1880
<211> 62

<212> PRT
<213> Homo sapiens

<400> 1880
Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
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Ile Ala Gly Gln Ile Lys Leu Leu Ser Ile Pro His Pro Tyr Ala Tyr
35 40 45
Pro Asp Tyr Tyr Pro Tyr Ala Trp Gly Val Asn Pro Gly Met
50 55 60

<210> 1881
<211> 69
<212> DNA
<213> Homo sapiens

<400> 1881
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cctggaatg 69

<210> 1882
<211> 23
<212> PRT
<213> Homo sapiens

<400> 1882
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Trp Gly Val Asn Pro Gly Met
20

<210> 1883
<211> 6799
<212> DNA
<213> Homo sapiens

<400> 1883
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<210> 1884
<211> 91
<212> PRT
<213> Homo sapiens

<400> 1884
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        35   40   45
Phe Val Ser Thr Gly Ser Thr Glu Leu Ala Ser Asn His Asp Leu Val
    50   55   60
Gln Lys Arg His Glu Asp Trp Ile Cys Ser Lys Gln Ile Val Gln Arg
65   70   75   80
Gly Lys Thr Gln Thr Gln His Phe His Ser Phe
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<210> 1885
<211> 56
<212> PRT
<213> Homo sapiens

<400> 1885
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Leu Cys Lys Gly Glu Arg His Arg Leu Ser Ile Ser Thr Ala Phe Asn
            20   25   30
Ile Ser Ala Arg Gly Glu Lys Ala Cys Gln Glu His Arg Pro Arg Pro
        35   40   45
Met Lys Val Ser Asp Ala Asn Thr
    50   55

<210> 1886
<211> 56
<212> PRT
<213> Homo sapiens

<400> 1886
Met Leu Thr His Glu Leu Ser Ser Ala Gly His Thr Lys Gly Pro Gln
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            20   25   30
Pro Arg Pro Arg Lys Ala Ala Pro Ala Ser Glu Val Ser Gln Lys Asp
        35   40   45
Thr His Leu Trp Thr Arg Cys Pro
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<210> 1887
<211> 100
<212> PRT
<213> Homo sapiens

<400> 1887
Met Ala Ser Pro Arg Val Thr Pro Pro Ala Ser Ala Phe Phe Arg Leu

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Phe Cys Arg His Ser Ser Ser Ser Cys Phe Ser Phe Ser Ser Arg Ile
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    50                  55                  60
Ala Gly Thr Gly Ser Pro Asn Asn Arg Glu Gly Thr Trp Ser Pro Arg
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                85                  90                  95
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<210> 1888
<211> 195
<212> PRT
<213> Homo sapiens

<400> 1888
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Thr Pro Gly Pro Pro Ala Ser Ser Leu Ser Cys Lys Leu Gly Thr Arg
        35                  40                  45
Glu Lys Cys Tyr Phe Cys Leu Ile Lys Leu His Ala Pro Ser His Ser
    50                  55                  60
Leu Ala Gln Pro Pro Pro Val Gly Ser Ala Ser Asp Cys Arg Pro His
65                  70                  75                  80
Pro Gly Pro Pro Ile Gly Ser Ala Arg Pro Ala Leu Pro Thr Pro Ala
                85                  90                  95
Phe Pro Pro Leu Asn Ser Lys Ser Ile Ser Leu His Gln Ile Ile Glu
            100                 105                 110
Ala Gln Ser Pro Ala Arg Leu Glu Leu Leu Thr Thr Cys Trp Val Cys
        115                 120                 125
Val Ser Ser Ser Pro Arg Gly Glu Pro Trp Glu Gly His Ser Leu Phe
    130                 135                 140
Ser Gly Pro Pro Arg Ala Leu Arg His Leu Lys Pro Pro Ser Gln Pro
145                 150                 155                 160
Arg Pro Val Gln Ser Gln Ser Lys Glu Pro Val Phe Arg Ser Leu Ser
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Thr Gly Leu Glu Gly Arg Pro Cys Val Gly Lys Arg Cys His Pro Arg
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Leu Arg Ser
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<210> 1889
<211> 90
<212> PRT
<213> Homo sapiens
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<400> 1889
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35 40 45
Leu Arg Ser Trp Ala Ser Leu Phe Arg Arg Ala Ser Phe Leu Phe Ser
50 55 60
Ser Ser Ser Ser Leu Val Cys Ser Arg Leu Ala Ser Ala Ser Thr Arg
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Phe Leu Pro Tyr Leu Tyr Trp Ala Ala Ser
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<210> 1890
<211> 104
<212> PRT
<213> Homo sapiens

<400> 1890
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Gly Cys Ile Arg Phe Leu Gly Ala Asp Ala Ala Trp Pro Cys Gly Ala
35 40 45
Ile Ser Ser Leu Val His Glu His Gly Gln Gly His Cys Gln Pro Leu
50 55 60
His Ser Pro Val Trp Met Leu Gln Leu Gln Lys Trp Asn His Arg Ala
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Asn Glu Cys Arg His Val Ser Val Trp Gln Pro Arg Ser Ser Thr Ala
85 90 95
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<210> 1891
<211> 1450
<212> DNA
<213> Homo sapiens

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<210> 1892
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<212> DNA
<213> Homo sapiens

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<210> 1893
<211> 8372
<212> DNA
<213> Homo sapiens

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<400> 1893
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<400> 1900
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ttcctcttgg gcatcatctt gctggttctg attggagtgc aaggaacccc agtagtgaga 120
aagggtcgct gttcctgcat cagcaccaac caagggacta tccacctaca atccttgaaa 180
gaccttaaac aatttgcccc aagcccttcc tgcgagaaaa ttgaaatcat tgctacactg 240
aagaatggag ttcaaacatg tctaaaccca gattcagcag atgtgaagga actgattaaa 300
aagtgggaga aacaggtcag ccaaaagaaa aagcaaaaga atgggaaaaa acatcaaaaa 360
aagaaagttc tgaaagttcg aaaatctcaa cgttctcgtc aaaagaagac tacataagag 420
accacttcac caataagtat tctgtgttaa aaatgttcta ttttaattat accgctatca 480
ttccaaagga ggatggcata taatacaaag gcttattaat ttgactagaa aatttaaaac 540
attactctga aattgtaact aaagttagaa agttgatttt aagaatccaa acgttaagaa 600
ttgttaaagg ctatgattgt ctttgttctt ctaccaccca ccagttgaat ttcatcatgc 660
ttaaggccat gattttagca atacccatgt ctacacagat gttcacccaa ccacatccca 720
ctcacaacag ctgcctggaa gagcagccct aggcttccac gtactgcagc ctccagagag 780
tatctgaggc acatgtcagc aagtcctaag cctgttagca tgctggtgag ccaagcagtt 840
tgaaattgag ctggacctca ccaagctgct gtggccatca acctctgtat ttgaatcagc 900
ctacaggcct cacacacaat gtgtctgaga gattcatgct gattgttatt gggtatcacc 960

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actggagatc accagtgtgt ggctttcaga gcctcctttc tggctttgga agccatgtga 1020
ttccatcttg cccgctcagg ctgaccactt tatttctttt tgttcccctt tgcttcattc 1080
aagtcagctc ttctccatcc taccacaatg cagtgccttt cttctctcca gtgcacctgt 1140
catatgctct gatttatctg agtcaactcc tttctcatct tgtccccaac accccacaga 1200
agtgctttct tctcccaatt catcctcact cagtccagct tagttcaagt cctgcctctt 1260
aaataaacct ttttggacac acaaattatc ttaaaactcc tgtttcactt ggttcagtac 1320
cacatgggtg aacactcaat ggttaactaa ttcttgggtg tttatcctat ctctccaacc 1380
agattgtcag ctccttgagg gcaagagcca cagtatattt ccctgtttct tccacagtgc 1440
ctaataatac tgtggaacta ggttttaata atttttaat tgatgttgtt atgggcagga 1500
tggcaaccag accattgtct cagagcaggt gctggctctt tcctggctac tccatgttgg 1560
ctagcctctg gtaacctctt acttattatc ttcaggacac tcactacagg gaccagggat 1620
gatgcaacat ccttgtcttt ttatgacagg atgtttgctc agcttctcca acaataagaa 1680
gcacgtggta aaacacttgc ggatattctg gactgttttt aaaaaatata cagtttaccg 1740
aaaatcatat aatcttacaa tgaaaaggac tttatagatc agccagtgac caacctttc 1800
ccaaccatac aaaaattcct tttcccgaag gaaaagggct ttctcaataa gcctcagctt 1860
tctaagatct aacaagatag ccaccgagat ccttatcgaa actcatttta ggcaaatatg 1920
agttttattg tccgtttact tgtttcagag tttgtattgt gattatcaat taccacacca 1980
tctcccatga agaaagggaa cggtgaagta ctaagcgcta gaggaagcag ccaagtcggt 2040
tagtggaagc atgattggtg cccagttagc ctctgcagga tgtggaaacc tccttccagg 2100
ggaggttcag tgaattgtgt aggagaggtt gtctgtggcc agaatttaaa cctatactca 2160
ctttcccaaa ttgaatcact gctcacactg ctgatgattt agagtgctgt ccggtggaga 2220
tcccacccga acgtcttatc taatcatgaa actccctagt tccttcatgt aacttccctg 2280
aaaaatctaa gtgtttcata aatttgagag tctgtgaccc acttaccttg catctcacag 2340
gtagacagta tataactaac aaccaaagac tacatattgt cactgacaca cacgttataa 2400
tcatttatca tatatataca tacatgcata cactctcaaa gcaaataatt tttcacttca 2460
aaacagtatt gacttgtata ccttgtaatt tgaaatattt tctttgttaa aatagaatgg 2520
tatcaataaa tagaccatta atcag                                      2545
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<210> 1901
<211> 149
<212> PRT
<213> Homo sapiens

<400> 1901

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Met Ala Ser Ser Asp Ile Gln Val Lys Glu Leu Glu Lys Arg Ala Ser
                  5                  10                  15
Gly Gln Ala Phe Glu Leu Ile Leu Ser Pro Arg Ser Lys Glu Ser Val
             20                  25                  30
Pro Glu Phe Pro Leu Ser Pro Pro Lys Lys Lys Asp Leu Ser Leu Glu
         35                  40                  45
Glu Ile Gln Lys Lys Leu Glu Ala Ala Glu Glu Arg Arg Lys Ser His
     50                  55                  60
Glu Ala Glu Val Leu Lys Gln Leu Ala Glu Lys Arg Glu His Glu Lys
 65                  70                  75                  80
Glu Val Leu Gln Lys Ala Ile Glu Glu Asn Asn Asn Phe Ser Lys Met
                 85                  90                  95
Ala Glu Glu Lys Leu Thr His Lys Met Glu Ala Asn Lys Glu Asn Arg
            100                 105                 110
Glu Ala Gln Met Ala Ala Lys Leu Glu Arg Leu Arg Glu Lys Asp Lys
        115                 120                 125
His Ile Glu Glu Val Arg Lys Asn Lys Glu Ser Lys Asp Pro Ala Asp
    130                 135                 140
Glu Thr Glu Ala Asp
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145

<210> 1902
<211> 276
<212> PRT
<213> Homo sapiens

<400> 1902
Met Ser Lys Pro Val Asp His Val Lys Arg Pro Met Asn Ala Phe Met
1 5 10 15
Val Trp Ser Arg Ala Gln Arg Arg Lys Met Ala Gln Glu Asn Pro Lys
20 25 30
Met His Asn Ser Glu Ile Ser Lys Arg Leu Gly Ala Glu Trp Lys Leu
35 40 45
Leu Thr Glu Ser Glu Lys Arg Pro Phe Ile Asp Glu Ala Lys Arg Leu
50 55 60
Arg Ala Met His Met Lys Glu His Pro Asp Tyr Lys Tyr Arg Pro Arg
65 70 75 80
Arg Lys Pro Lys Thr Leu Leu Lys Lys Asp Lys Phe Ala Phe Pro Val
85 90 95
Pro Tyr Gly Leu Gly Gly Val Ala Asp Ala Glu His Pro Ala Leu Lys
100 105 110
Ala Gly Ala Gly Leu His Ala Gly Ala Gly Gly Gly Leu Val Pro Glu
115 120 125
Ser Leu Leu Ala Asn Pro Glu Lys Ala Ala Ala Ala Ala Ala Ala Ala
130 135 140
Ala Ala Arg Val Phe Phe Pro Gln Ser Ala Ala Ala Ala Ala Ala Ala
145 150 155 160
Ala Ala Ala Ala Ala Ala Gly Ser Pro Tyr Ser Leu Leu Asp Leu Gly
165 170 175
Ser Lys Met Ala Glu Ile Ser Ser Ser Ser Ser Gly Leu Pro Tyr Ala
180 185 190
Ser Ser Leu Gly Tyr Pro Thr Ala Gly Ala Gly Ala Phe His Gly Ala
195 200 205
Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Gly His Thr His
210 215 220
Ser His Pro Ser Pro Gly Asn Pro Gly Tyr Met Ile Pro Cys Asn Cys
225 230 235 240
Ser Ala Trp Pro Ser Pro Gly Leu Gln Pro Pro Leu Ala Tyr Ile Leu
245 250 255
Leu Pro Gly Met Gly Lys Pro Gln Leu Asp Pro Tyr Pro Ala Ala Tyr
260 265 270
Ala Ala Ala Leu
275

<210> 1903
<211> 2209
<212> PRT
<213> Homo sapiens

<400> 1903
Met Trp Asn Asp Ile Glu Leu Leu Thr Asn Asp Asp Thr Gly Ser Gly

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                        5                   10                  15
Tyr Leu Ser Val Gly Ser Arg Lys Glu His Gly Thr Ala Leu Tyr Gln
                20                  25                  30
Val Asp Leu Leu Val Lys Ile Ser Ser Glu Lys Ala Ser Leu Asn Pro
            35                  40                  45
Lys Ile Gln Ala Cys Ser Leu Ser Asp Gly Phe Ile Ile Val Ala Asp
        50                  55                  60
Gln Ser Val Ile Leu Leu Asp Ser Ile Cys Arg Ser Leu Gln Leu His
65                  70                  75                  80
Leu Val Phe Asp Thr Glu Val Asp Val Val Gly Leu Cys Gln Glu Gly
                85                  90                  95
Lys Phe Leu Leu Val Gly Glu Arg Ser Gly Asn Leu His Leu Ile His
            100                 105                 110
Val Thr Ser Lys Gln Thr Leu Leu Thr Asn Ala Phe Val Gln Lys Ala
        115                 120                 125
Asn Asp Glu Asn Arg Arg Thr Tyr Gln Asn Leu Val Ile Glu Lys Asp
    130                 135                 140
Gly Ser Asn Glu Gly Thr Tyr Tyr Met Leu Leu Leu Thr Tyr Ser Gly
145                 150                 155                 160
Phe Phe Cys Ile Thr Asn Leu Gln Leu Leu Lys Ile Gln Gln Ala Ile
                165                 170                 175
Glu Asn Val Asp Phe Ser Thr Ala Lys Lys Leu Gln Gly Gln Ile Lys
            180                 185                 190
Ser Ser Phe Ile Ser Thr Glu Asn Tyr His Thr Leu Gly Cys Leu Ser
        195                 200                 205
Leu Val Ala Gly Asp Leu Ala Ser Glu Val Pro Val Ile Ile Gly Gly
    210                 215                 220
Thr Gly Asn Cys Ala Phe Ser Lys Trp Glu Pro Asp Ser Ser Lys Lys
225                 230                 235                 240
Gly Met Thr Val Lys Asn Leu Ile Asp Ala Glu Ile Ile Lys Gly Ala
                245                 250                 255
Lys Lys Phe Gln Leu Ile Asp Asn Leu Leu Phe Val Leu Asp Thr Asp
            260                 265                 270
Asn Val Leu Ser Leu Trp Asp Ile Tyr Thr Leu Thr Pro Val Trp Asn
        275                 280                 285
Trp Pro Ser Leu His Val Glu Glu Phe Leu Leu Thr Thr Glu Ala Asp
    290                 295                 300
Ser Pro Ser Ser Val Thr Trp Gln Gly Ile Thr Asn Leu Lys Leu Ile
305                 310                 315                 320
Ala Leu Thr Ala Ser Ala Asn Lys Lys Met Lys Asn Leu Met Val Tyr
                325                 330                 335
Ser Leu Pro Thr Met Glu Ile Leu Tyr Ser Leu Glu Val Ser Ser Val
            340                 345                 350
Ser Ser Leu Val Gln Thr Gly Ile Ser Thr Asp Thr Ile Tyr Leu Leu
        355                 360                 365
Glu Gly Val Cys Lys Asn Asp Pro Lys Leu Ser Glu Asp Ser Val Ser
    370                 375                 380
Val Leu Val Leu Arg Cys Leu Thr Glu Ala Leu Pro Glu Asn Arg Leu
385                 390                 395                 400
Ser Arg Leu Leu His Lys His Arg Phe Ala Glu Ala Glu Ser Phe Ala
                405                 410                 415
Ile Gln Phe Gly Leu Asp Val Glu Leu Val Tyr Lys Val Lys Ser Asn
            420                 425                 430
His Ile Leu Glu Lys Leu Ala Leu Ser Ser Val Asp Ala Ser Glu Gln
```

```
        435                 440                 445
Thr Glu Trp Gln Gln Leu Val Asp Asp Ala Lys Glu Asn Leu His Lys
    450                 455                 460
Ile Gln Asp Asp Glu Phe Val Val Asn Tyr Cys Leu Lys Ala Gln Trp
465                 470                 475                 480
Ile Thr Tyr Glu Thr Thr Gln Glu Met Leu Asn Tyr Ala Lys Thr Arg
                485                 490                 495
Leu Leu Lys Lys Glu Asp Lys Thr Ala Leu Ile Tyr Ser Asp Gly Leu
            500                 505                 510
Lys Glu Val Leu Arg Ala His Ala Lys Leu Thr Thr Phe Tyr Gly Ala
        515                 520                 525
Phe Gly Pro Glu Lys Phe Ser Gly Ser Ser Trp Ile Glu Phe Leu Asn
    530                 535                 540
Asn Glu Asp Asp Leu Lys Asp Ile Phe Leu Gln Leu Lys Glu Gly Asn
545                 550                 555                 560
Leu Val Cys Ala Gln Tyr Leu Trp Leu Arg His Arg Ala Asn Phe Glu
                565                 570                 575
Ser Arg Phe Asp Val Lys Met Leu Glu Ser Leu Leu Asn Ser Met Ser
            580                 585                 590
Ala Ser Val Ser Leu Gln Lys Leu Cys Pro Trp Phe Lys Asn Asp Val
        595                 600                 605
Ile Pro Phe Val Arg Arg Thr Val Pro Glu Gly Gln Ile Ile Leu Ala
    610                 615                 620
Lys Trp Leu Glu Gln Ala Ala Arg Asn Leu Glu Leu Thr Asp Lys Ala
625                 630                 635                 640
Asn Trp Pro Glu Asn Gly Leu Gln Leu Ala Glu Ile Phe Phe Thr Ala
                645                 650                 655
Glu Lys Thr Asp Glu Leu Gly Leu Ala Ser Ser Trp His Trp Ile Ser
            660                 665                 670
Leu Lys Asp Tyr Gln Asn Thr Glu Glu Val Cys Gln Leu Arg Thr Leu
        675                 680                 685
Val Asn Asn Leu Arg Glu Leu Ile Thr Leu His Arg Lys Tyr Asn Cys
    690                 695                 700
Lys Leu Ala Leu Ser Asp Phe Glu Lys Glu Asn Thr Thr Thr Ile Val
705                 710                 715                 720
Phe Arg Met Phe Asp Lys Val Leu Ala Pro Glu Leu Ile Pro Ser Ile
                725                 730                 735
Leu Glu Lys Phe Ile Arg Val Tyr Met Arg Glu His Asp Leu Gln Glu
            740                 745                 750
Glu Glu Leu Leu Leu Leu Tyr Ile Glu Asp Leu Leu Asn Arg Cys Ser
        755                 760                 765
Ser Lys Ser Thr Ser Leu Phe Glu Thr Ala Trp Glu Ala Lys Ala Met
    770                 775                 780
Ala Val Ile Ala Cys Leu Ser Asp Thr Asp Leu Ile Phe Asp Ala Val
785                 790                 795                 800
Leu Lys Ile Met Tyr Ala Ala Val Val Pro Trp Ser Ala Ala Val Glu
                805                 810                 815
Gln Leu Val Lys Gln His Leu Glu Met Asp His Pro Lys Val Lys Leu
            820                 825                 830
Leu Gln Glu Ser Tyr Lys Leu Met Glu Met Lys Lys Leu Leu Arg Gly
        835                 840                 845
Tyr Gly Ile Arg Glu Val Asn Leu Leu Asn Lys Glu Ile Met Arg Val
    850                 855                 860
Val Arg Tyr Ile Leu Lys Gln Asp Val Pro Ser Ser Leu Glu Asp Ala
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865 870 875 880
Leu Lys Val Ala Gln Ala Phe Met Leu Ser Asp Asp Glu Ile Tyr Ser
885 890 895
Leu Arg Ile Ile Asp Leu Ile Asp Arg Glu Gln Gly Glu Asp Cys Leu
900 905 910
Leu Leu Leu Lys Ser Leu Pro Pro Ala Glu Ala Glu Lys Thr Ala Glu
915 920 925
Arg Val Ile Ile Trp Ala Arg Leu Ala Leu Gln Glu Glu Pro Asp His
930 935 940
Ser Lys Glu Gly Lys Ala Trp Arg Met Ser Val Ala Lys Thr Ser Val
945 950 955 960
Asp Ile Leu Lys Ile Leu Cys Asp Ile Gln Lys Asp Asn Leu Gln Lys
965 970 975
Lys Asp Glu Cys Glu Glu Met Leu Lys Leu Phe Lys Glu Val Ala Ser
980 985 990
Leu Gln Glu Asn Phe Glu Val Phe Leu Ser Phe Glu Asp Tyr Ser Asn
995 1000 1005
Ser Ser Leu Val Ala Asp Leu Arg Glu Gln His Ile Lys Ala His Glu
1010 1015 1020
Val Ala Gln Ala Lys His Lys Pro Gly Ser Thr Pro Glu Pro Ile Ala
1025 1030 1035 1040
Ala Glu Val Arg Ser Pro Ser Met Glu Ser Lys Leu His Arg Gln Ala
1045 1050 1055
Leu Ala Leu Gln Met Ser Lys Gln Glu Leu Glu Ala Glu Leu Thr Leu
1060 1065 1070
Arg Ala Leu Lys Asp Gly Asn Ile Lys Thr Ala Leu Lys Lys Cys Ser
1075 1080 1085
Asp Leu Phe Lys Tyr His Cys Asn Ala Asp Thr Gly Lys Leu Leu Phe
1090 1095 1100
Leu Thr Cys Gln Lys Leu Cys Gln Met Leu Ala Asp Asn Val Pro Val
1105 1110 1115 1120
Thr Val Pro Val Gly Leu Asn Leu Pro Ser Met Ile His Asp Leu Ala
1125 1130 1135
Ser Gln Ala Ala Thr Ile Cys Ser Pro Asp Phe Leu Leu Asp Ala Leu
1140 1145 1150
Glu Leu Cys Lys His Thr Leu Met Ala Val Glu Leu Ser Arg Gln Cys
1155 1160 1165
Gln Met Asp Asp Cys Gly Ile Leu Met Lys Ala Ser Phe Gly Thr His
1170 1175 1180
Lys Asp Pro Tyr Glu Glu Trp Ser Tyr Ser Asp Phe Phe Ser Glu Asp
1185 1190 1195 1200
Gly Ile Val Leu Glu Ser Gln Met Val Leu Pro Val Ile Tyr Glu Leu
1205 1210 1215
Ile Ser Ser Leu Val Pro Leu Ala Glu Ser Lys Arg Tyr Pro Leu Glu
1220 1225 1230
Ser Thr Ser Leu Pro Tyr Cys Ser Leu Asn Glu Gly Asp Gly Leu Val
1235 1240 1245
Leu Pro Val Ile Asn Ser Ile Ser Ala Leu Leu Gln Asn Leu Gln Glu
1250 1255 1260
Ser Ser Gln Trp Glu Leu Ala Leu Arg Phe Val Val Gly Ser Phe Gly
1265 1270 1275 1280
Thr Cys Leu Gln His Ser Val Ser Asn Phe Met Asn Ala Thr Leu Ser
1285 1290 1295
Glu Lys Leu Phe Gly Glu Thr Thr Leu Val Lys Ser Arg His Val Val

1300 1305 1310
Met Glu Leu Lys Glu Lys Ala Val Ile Phe Ile Arg Glu Asn Ala Thr
1315 1320 1325
Thr Leu Leu His Lys Val Phe Asn Cys Arg Leu Val Asp Leu Asp Leu
1330 1335 1340
Ala Leu Gly Tyr Cys Thr Leu Leu Pro Gln Lys Asp Val Phe Glu Asn
1345 1350 1355 1360
Leu Trp Lys Leu Ile Asp Lys Ala Trp Gln Asn Tyr Asp Lys Ile Leu
1365 1370 1375
Ala Ile Ser Leu Val Gly Ser Glu Leu Ala Ser Leu Tyr Gln Glu Ile
1380 1385 1390
Glu Met Gly Leu Lys Phe Arg Glu Leu Ser Thr Asp Ala Gln Trp Gly
1395 1400 1405
Ile Arg Leu Gly Lys Leu Gly Ile Ser Phe Gln Pro Val Phe Arg Gln
1410 1415 1420
His Phe Leu Thr Lys Lys Asp Leu Ile Lys Ala Leu Val Glu Asn Ile
1425 1430 1435 1440
Asp Met Asp Thr Ser Leu Ile Leu Glu Tyr Cys Ser Thr Phe Gln Leu
1445 1450 1455
Asp Cys Asp Ala Val Leu Gln Leu Phe Ile Glu Thr Leu Leu His Asn
1460 1465 1470
Thr Asn Ala Gly Gln Gly Gln Gly Asp Ala Ser Met Asp Ser Ala Lys
1475 1480 1485
Arg Arg His Pro Lys Leu Leu Ala Lys Ala Leu Glu Met Val Pro Leu
1490 1495 1500
Leu Thr Ser Thr Lys Asp Leu Val Ile Ser Leu Ser Gly Ile Leu His
1505 1510 1515 1520
Lys Leu Asp Pro Tyr Asp Tyr Glu Met Ile Glu Val Val Leu Lys Val
1525 1530 1535
Ile Glu Arg Ala Asp Glu Lys Ile Thr Asn Ile Asn Ile Asn Gln Ala
1540 1545 1550
Leu Ser Ile Leu Lys His Leu Lys Ser Tyr Arg Arg Ile Ser Pro Pro
1555 1560 1565
Val Asp Leu Glu Tyr Gln Tyr Met Leu Glu His Val Ile Thr Leu Pro
1570 1575 1580
Ser Ala Ala Gln Thr Arg Leu Pro Phe His Leu Ile Phe Phe Gly Thr
1585 1590 1595 1600
Ala Gln Asn Phe Trp Lys Ile Leu Ser Thr Glu Leu Ser Glu Glu Ser
1605 1610 1615
Phe Pro Thr Leu Leu Leu Ile Ser Lys Leu Met Lys Phe Ser Leu Asp
1620 1625 1630
Thr Leu Tyr Val Ser Thr Ala Lys His Val Phe Glu Lys Lys Leu Lys
1635 1640 1645
Pro Lys Leu Leu Lys Leu Thr Gln Ala Lys Ser Ser Thr Leu Ile Asn
1650 1655 1660
Lys Glu Ile Thr Lys Ile Thr Gln Thr Ile Glu Ser Cys Leu Leu Ser
1665 1670 1675 1680
Ile Val Asn Pro Glu Trp Ala Val Ala Ile Ala Ile Ser Leu Ala Gln
1685 1690 1695
Asp Ile Pro Glu Gly Ser Phe Lys Ile Ser Ala Leu Lys Phe Cys Leu
1700 1705 1710
Tyr Leu Ala Glu Arg Trp Leu Gln Asn Ile Pro Ser Gln Asp Glu Lys
1715 1720 1725
Arg Glu Lys Ala Glu Ala Leu Leu Lys Lys Leu His Ile Gln Tyr Arg

1730 1735 1740
Arg Ser Gly Thr Glu Ala Val Leu Ile Ala His Lys Leu Asn Thr Glu
1745 1750 1755 1760
Glu Tyr Leu Arg Val Ile Gly Lys Pro Ala His Leu Ile Val Ser Leu
1765 1770 1775
Tyr Glu His Pro Ser Ile Asn Gln Arg Ile Gln Asn Ser Ser Gly Thr
1780 1785 1790
Asp Tyr Pro Asp Ile His Ala Ala Ala Lys Glu Ile Ala Glu Val Asn
1795 1800 1805
Glu Ile Asn Leu Glu Lys Val Trp Asp Met Leu Leu Glu Lys Trp Leu
1810 1815 1820
Cys Pro Ser Thr Lys Pro Gly Glu Lys Pro Ser Glu Leu Phe Glu Leu
1825 1830 1835 1840
Gln Glu Asp Glu Ala Leu Arg Arg Val Gln Tyr Leu Leu Leu Ser Arg
1845 1850 1855
Pro Ile Asp Tyr Ser Ser Arg Met Leu Phe Val Phe Ala Thr Ser Thr
1860 1865 1870
Thr Thr Thr Leu Gly Met His Gln Leu Thr Phe Ala His Arg Thr Arg
1875 1880 1885
Ala Leu Gln Cys Leu Phe Tyr Leu Ala Asp Lys Glu Thr Ile Glu Ser
1890 1895 1900
Leu Phe Lys Lys Pro Ile Glu Glu Val Lys Ser Tyr Leu Arg Cys Ile
1905 1910 1915 1920
Thr Phe Leu Ala Ser Phe Glu Thr Leu Asn Ile Pro Ile Thr Tyr Glu
1925 1930 1935
Leu Phe Cys Ser Ser Pro Lys Glu Gly Met Ile Lys Gly Leu Trp Lys
1940 1945 1950
Asn His Ser His Glu Ser Met Ala Val Arg Leu Val Thr Glu Leu Cys
1955 1960 1965
Leu Glu Tyr Lys Ile Tyr Asp Leu Gln Leu Trp Asn Gly Leu Leu Gln
1970 1975 1980
Lys Leu Leu Gly Phe Asn Met Ile Pro Tyr Leu Arg Lys Val Leu Lys
1985 1990 1995 2000
Ala Ile Ser Ser Ile His Ser Leu Trp Gln Val Pro Tyr Phe Ser Lys
2005 2010 2015
Ala Trp Gln Arg Val Ile Gln Ile Pro Leu Leu Ser Ala Ser Cys Pro
2020 2025 2030
Leu Ser Pro Asp Gln Leu Ser Asp Cys Ser Glu Ser Leu Ile Ala Val
2035 2040 2045
Leu Glu Cys Pro Val Ser Gly Asp Leu Asp Leu Ile Gly Val Ala Arg
2050 2055 2060
Gln Tyr Ile Gln Leu Glu Leu Pro Ala Phe Ala Leu Ala Cys Leu Met
2065 2070 2075 2080
Leu Met Pro His Ser Glu Lys Arg His Gln Gln Ile Lys Asn Phe Leu
2085 2090 2095
Gly Ser Cys Asp Pro Gln Val Ile Leu Lys Gln Leu Glu Glu His Met
2100 2105 2110
Asn Thr Gly Gln Leu Ala Gly Phe Ser His Gln Ile Arg Ser Leu Ile
2115 2120 2125
Leu Asn Asn Ile Ile Asn Lys Lys Glu Phe Gly Ile Leu Ala Lys Thr
2130 2135 2140
Lys Tyr Phe Gln Met Leu Lys Met His Ala Met Asn Thr Asn Asn Ile
2145 2150 2155 2160
Thr Glu Leu Val Asn Tyr Leu Ala Asn Asp Leu Ser Leu Asp Glu Ala

2165 2170 2175
Ser Val Leu Ile Thr Glu Tyr Ser Lys His Cys Gly Lys Pro Val Pro
2180 2185 2190
Pro Asp Thr Ala Pro Cys Glu Ile Leu Lys Met Phe Leu Ser Gly Leu
2195 2200 2205
Ser

<210> 1904
<211> 197
<212> PRT
<213> Homo sapiens

<400> 1904
Met Gln Arg Ala Ser Arg Leu Lys Arg Glu Leu His Met Leu Ala Thr
5 10 15
Glu Pro Pro Pro Gly Ile Thr Cys Trp Gln Asp Lys Asp Gln Met Asp
20 25 30
Asp Leu Arg Ala Gln Ile Leu Gly Gly Ala Asn Thr Pro Tyr Glu Lys
35 40 45
Gly Val Phe Lys Leu Glu Val Ile Ile Pro Glu Arg Tyr Pro Phe Glu
50 55 60
Pro Pro Gln Ile Arg Phe Leu Thr Pro Ile Tyr His Pro Asn Ile Asp
65 70 75 80
Ser Ala Gly Arg Ile Cys Leu Asp Val Leu Lys Leu Pro Pro Lys Gly
85 90 95
Ala Trp Arg Pro Ser Leu Asn Ile Ala Thr Val Leu Thr Ser Ile Gln
100 105 110
Leu Leu Met Ser Glu Pro Asn Pro Asp Asp Pro Leu Met Ala Asp Ile
115 120 125
Ser Ser Glu Phe Lys Tyr Asn Lys Pro Ala Phe Leu Lys Asn Ala Arg
130 135 140
Gln Trp Thr Glu Lys His Ala Arg Gln Lys Gln Lys Ala Asp Glu Glu
145 150 155 160
Glu Met Leu Asp Asn Leu Pro Glu Ala Gly Asp Ser Arg Val His Asn
165 170 175
Ser Thr Gln Lys Arg Lys Ala Ser Gln Leu Val Gly Ile Glu Lys Lys
180 185 190
Phe His Pro Asp Val
195

<210> 1905
<211> 202
<212> PRT
<213> Homo sapiens

<400> 1905
Met Ala Thr Leu Ile Tyr Val Asp Lys Glu Asn Gly Glu Pro Gly Thr
5 10 15
Arg Val Val Ala Lys Asp Gly Leu Lys Leu Gly Ser Gly Pro Ser Ile
20 25 30
Lys Ala Leu Asp Gly Arg Ser Gln Val Ser Thr Pro Arg Phe Gly Lys
35 40 45

Thr Phe Asp Ala Pro Pro Ala Leu Pro Lys Ala Thr Arg Lys Ala Leu
50 55 60
Gly Thr Val Asn Arg Ala Thr Glu Lys Ser Val Lys Thr Lys Gly Pro
65 70 75 80
Leu Lys Gln Lys Gln Pro Ser Phe Ser Ala Lys Lys Met Thr Glu Lys
85 90 95
Thr Val Lys Ala Lys Ser Ser Val Pro Ala Ser Asp Asp Ala Tyr Pro
100 105 110
Glu Ile Glu Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Glu Ser Phe
115 120 125
Asp Leu Pro Glu Glu His Gln Ile Ala His Leu Pro Leu Ser Gly Val
130 135 140
Pro Leu Met Ile Leu Asp Glu Glu Arg Glu Leu Glu Lys Leu Phe Gln
145 150 155 160
Leu Gly Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser
165 170 175
Asn Leu Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu
180 185 190
Leu Pro Pro Val Cys Cys Asp Ile Asp Ile
195 200

<210> 1906
<211> 464
<212> PRT
<213> Homo sapiens

<400> 1906
Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Ile Ala Glu Ile Val Val
5 10 15
His Ile Arg Asn Lys Leu Leu Thr Gly Ala Asp Gly Lys Asn Leu Ser
20 25 30
Lys Ser Asp Phe Leu Pro Asn Pro Lys Pro Glu Val Leu Tyr Met Ile
35 40 45
Tyr Met Arg Ala Leu Gln Leu Val Tyr Gly Val Arg Leu Glu His Phe
50 55 60
Tyr Met Met Pro Val Asn Ile Glu Val Met Tyr Pro His Ile Met Glu
65 70 75 80
Gly Phe Leu Pro Val Ser Asn Leu Phe Phe His Leu Asp Ser Phe Met
85 90 95
Pro Ile Cys Arg Val Asn Asp Phe Glu Ile Ala Asp Ile Leu Tyr Pro
100 105 110
Lys Ala Asn Arg Thr Ser Arg Phe Leu Ser Gly Ile Ile Asn Phe Ile
115 120 125
His Phe Arg Glu Thr Cys Leu Glu Lys Tyr Glu Glu Phe Leu Leu Gln
130 135 140
Asn Lys Ser Ser Val Asp Lys Ile Gln Gln Leu Ser Asn Ala His Gln
145 150 155 160
Glu Ala Leu Met Lys Leu Glu Lys Leu Asn Ser Val Pro Val Glu Glu
165 170 175
Gln Glu Glu Phe Lys Gln Leu Lys Asp Asp Ile Gln Glu Leu Gln His
180 185 190
Leu Leu Asn Gln Asp Phe Arg Gln Lys Thr Thr Leu Leu Gln Glu Arg
195 200 205

Tyr Thr Lys Met Lys Ser Asp Phe Ser Glu Lys Thr Lys His Val Asn
210 215 220
Glu Leu Lys Leu Ser Val Val Ser Leu Lys Glu Val Gln Asp Ser Leu
225 230 235 240
Lys Ser Lys Ile Val Asp Ser Pro Glu Lys Leu Lys Asn Tyr Lys Glu
245 250 255
Lys Met Lys Asp Thr Val Gln Lys Leu Arg Ser Ala Arg Glu Glu Val
260 265 270
Met Glu Lys Tyr Asp Ile Tyr Arg Asp Ser Val Asp Cys Leu Pro Ser
275 280 285
Cys Gln Leu Glu Val Gln Leu Tyr Gln Lys Lys Ser Gln Asp Leu Ala
290 295 300
Asp Asn Arg Glu Lys Leu Ser Ser Ile Leu Lys Glu Ser Leu Asn Leu
305 310 315 320
Glu Gly Gln Ile Asp Ser Asp Ser Ser Glu Leu Lys Lys Leu Lys Thr
325 330 335
Glu Glu Asn Ser Leu Ile Arg Leu Met Thr Leu Lys Lys Glu Arg Leu
340 345 350
Ala Thr Met Gln Phe Lys Ile Asn Lys Lys Gln Glu Asp Val Lys Gln
355 360 365
Tyr Lys Arg Thr Met Ile Glu Asp Cys Asn Lys Val Gln Glu Lys Arg
370 375 380
Asp Ala Val Cys Glu Gln Val Thr Ala Ile Asn Gln Asp Ile His Lys
385 390 395 400
Ile Lys Ser Gly Ile Gln Gln Leu Arg Asp Ala Glu Lys Arg Glu Lys
405 410 415
Leu Lys Ser Gln Glu Ile Leu Val Asp Leu Lys Ser Ala Leu Glu Lys
420 425 430
Tyr His Glu Gly Ile Glu Lys Thr Thr Glu Glu Cys Cys Thr Arg Ile
435 440 445
Gly Gly Lys Thr Ala Glu Leu Lys Arg Arg Met Phe Lys Met Pro Pro
450 455 460

<210> 1907
<211> 168
<212> PRT
<213> Homo sapiens

<400> 1907
Met Ala Glu Pro Trp Gly Asn Glu Leu Ala Ser Ala Ala Ala Arg Gly
5 10 15
Asp Leu Glu Gln Leu Thr Ser Leu Leu Gln Asn Asn Val Asn Val Asn
20 25 30
Ala Gln Asn Gly Phe Gly Arg Thr Ala Leu Gln Val Met Lys Leu Gly
35 40 45
Asn Pro Glu Ile Ala Arg Arg Leu Leu Leu Arg Gly Ala Asn Pro Asp
50 55 60
Leu Lys Asp Arg Thr Gly Phe Ala Val Ile His Asp Ala Ala Arg Ala
65 70 75 80
Gly Phe Leu Asp Thr Leu Gln Thr Leu Leu Glu Phe Gln Ala Asp Val
85 90 95
Asn Ile Glu Asp Asn Glu Gly Asn Leu Pro Leu His Leu Ala Ala Lys
100 105 110

Glu Gly His Leu Arg Val Val Glu Phe Leu Val Lys His Thr Ala Ser
        115   120   125
Asn Val Gly His Arg Asn His Lys Gly Asp Thr Ala Cys Asp Leu Ala
    130   135   140
Arg Leu Tyr Gly Arg Asn Glu Val Val Ser Leu Met Gln Ala Asn Gly
145   150   155   160
Ala Gly Gly Ala Thr Asn Leu Gln
                165

<210> 1908
<211> 156
<212> PRT
<213> Homo sapiens

<400> 1908
Met Glu Pro Ala Ala Gly Ser Ser Met Glu Pro Ser Ala Asp Trp Leu
                5   10   15
Ala Thr Ala Ala Ala Arg Gly Arg Val Glu Glu Val Arg Ala Leu Leu
            20   25   30
Glu Ala Gly Ala Leu Pro Asn Ala Pro Asn Ser Tyr Gly Arg Arg Pro
        35   40   45
Ile Gln Val Met Met Met Gly Ser Ala Arg Val Ala Glu Leu Leu Leu
    50   55   60
Leu His Gly Ala Glu Pro Asn Cys Ala Asp Pro Ala Thr Leu Thr Arg
65   70   75   80
Pro Val His Asp Ala Ala Arg Glu Gly Phe Leu Asp Thr Leu Val Val
                85   90   95
Leu His Arg Ala Gly Ala Arg Leu Asp Val Arg Asp Ala Trp Gly Arg
            100   105   110
Leu Pro Val Asp Leu Ala Glu Glu Leu Gly His Arg Asp Val Ala Arg
        115   120   125
Tyr Leu Arg Ala Ala Ala Gly Gly Thr Arg Gly Ser Asn His Ala Arg
    130   135   140
Ile Asp Ala Ala Glu Gly Pro Ser Asp Ile Pro Asp
145   150   155

<210> 1909
<211> 125
<212> PRT
<213> Homo sapiens

<400> 1909
Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val
                5   10   15
Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser
            20   25   30
Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp
        35   40   45
Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile
    50   55   60
Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala
65   70   75   80

```
Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys
                85                  90                  95
Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys
            100                 105                 110
Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
        115                 120                 125
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<210> 1910
<211> 931
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(931)
<223> n = A,T,C or G

<400> 1910

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aggggtgtca gctcagtgca tcccaggcag ctcttagtgt ggagcagtga actgtgtgtg 120
gttccttcta cttggggatc atgcagagag cttcrcgtct gaagagagag ctgcacatgt 180
tagccacaga gccacccccca ggcatcacat gttggcaaga taaagaccaa atggatgacc 240
tgcgagctca aatattaggt ggagccaaca caccttatga gaaaggtgtt tttaagctag 300
aagttatcat tcctgagagg tacccatttg aacctcctca gatccgattt ctcactccaa 360
tttatcatcc aaacattgat tctgctggaa ggatttgtct ggatgttctc aaattgccac 420
caaaaggtgc ttggagacca tccctcaaca tcgcaactgt gttgacctct attcagctgc 480
tcatgtcaga acccaaccct gatgacccgc tcatggctga catatcctca gaatttaaat 540
ataataagcc agccttcctc aagaatgcca gacagtggac agagaagcat gcaagacaga 600
aacaaaaggc tgatgaggaa gagatgcttg ataatctacc agaggctggt gactccagag 660
tacacaactc aacacagaaa aggaaggcca gtcagctagt aggcatagaa aagaaatttc 720
atcctgatgt ttaggggact tgtcctggtt catcttagtt aatgtgttct ttgccaaggt 780
gatctaagtt gcctaccttg aatttttttt taaatatatt tgatgacata atttttgtgt 840
agtttattta tcttgtacat atgtattttg aaatctttta aacctgaaaa ataaatagtc 900
atttaatgtt gaaaaaaaaa aaaaaaaaaa a                                931
```

<210> 1911
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 1911

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gctaaaggtg accccaagaa accaaag                                     27
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<210> 1912
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 1912
ctattaactc gagggagaca gataaacagt ttcttta 37

<210> 1913
<211> 209
<212> PRT
<213> Homo sapiens

<400> 1913
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Met Gln His His His His His His Ala Lys Gly Asp Pro Lys Lys Pro
                    5                  10                  15
Lys Gly Lys Met Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg Glu
            20                  25                  30
Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu Phe
        35                  40                  45
Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Gly Lys Glu Lys
    50                  55                  60
Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp Arg
65                  70                  75                  80
Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp
                85                  90                  95
Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser
            100                 105                 110
Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly
        115                 120                 125
Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp Ser
    130                 135                 140
Glu Lys Gln Pro Tyr Ile Thr Lys Ala Ala Lys Leu Lys Glu Lys Tyr
145                 150                 155                 160
Glu Lys Asp Val Ala Asp Tyr Lys Ser Lys Gly Lys Phe Asp Gly Ala
                165                 170                 175
Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp Glu
            180                 185                 190
Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Asp Glu
        195                 200                 205
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<210> 1914
<211> 624
<212> DNA
<213> Homo sapiens

<400> 1914
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atgcagcatc accaccatca ccacgctaaa ggtgacccca agaaaccaaa gggcaagatg 60
tccgcttatg ccttctttgt gcagacatgc agagaagaac ataagaagaa aaacccagag 120
gtccctgtca attttgcgga attttccaag aagtgctctg agaggtggaa gacgatgtcc 180
gggaaagaga aatctaaatt tgatgaaatg gcaaaggcag ataaagtgcg ctatgatcgg 240
gaaatgaagg attatggacc agctaaggga ggcaagaaga agaaggatcc taatgctccc 300
aaaaggccac cgtctggatt cttcctgttc tgttcagaat tccgccccaa gatcaaatcc 360
acaaaccccg gcatctctat tggagacgtg gcaaaaaagc tgggtgagat gtggaataat 420
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ttaaatgaca gtgaaaagca gccttacatc actaaggcgg caaagctgaa ggagaagtat 480
gagaaggatg ttgctgacta taagtcgaaa ggaaagtttg atggtgcaaa gggtccagct 540
aaagttgccc ggaaaaaggt ggaagaggaa gatgaagaag aggaggagga agaagaggag 600
gaggaggagg aggaggatga ataa 624

<210> 1915
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 1915
gtgacgatgg aggagctgcg ggagatgg 28

<210> 1916
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 1916
cgcctaactc gagtcactaa cagctgggag 30

<210> 1917
<211> 403
<212> PRT
<213> Homo sapiens

<400> 1917
Met Gln His His His His His His Val Thr Met Glu Glu Leu Arg Glu
1 5 10 15
Met Asp Cys Ser Val Leu Lys Arg Leu Met Asn Arg Asp Glu Asn Gly
20 25 30
Gly Gly Ala Gly Gly Ser Gly Ser His Gly Thr Leu Gly Leu Pro Ser
35 40 45
Gly Gly Lys Cys Leu Leu Leu Asp Cys Arg Pro Phe Leu Ala His Ser
50 55 60
Ala Gly Tyr Ile Leu Gly Ser Val Asn Val Arg Cys Asn Thr Ile Val
65 70 75 80
Arg Arg Arg Ala Lys Gly Ser Val Ser Leu Glu Gln Ile Leu Pro Ala
85 90 95
Glu Glu Glu Val Arg Ala Arg Leu Arg Ser Gly Leu Tyr Ser Ala Val
100 105 110
Ile Val Tyr Asp Glu Arg Ser Pro Arg Ala Glu Ser Leu Arg Glu Asp
115 120 125
Ser Thr Val Ser Leu Val Val Gln Ala Leu Arg Arg Asn Ala Glu Arg
130 135 140
Thr Asp Ile Cys Leu Leu Lys Gly Gly Tyr Glu Arg Phe Ser Ser Glu

145 150 155 160
Tyr Pro Glu Phe Cys Ser Lys Thr Lys Ala Leu Ala Ala Ile Pro Pro
165 170 175
Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser
180 185 190
Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
195 200 205
Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu
210 215 220
Asp Ala Leu Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro
225 230 235 240
Asn His Phe Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp
245 250 255
Asn His Lys Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile Glu Tyr
260 265 270
Ile Asp Ala Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln
275 280 285
Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met
290 295 300
Lys Lys Arg Val Arg Leu Glu Glu Ala Phe Glu Phe Val Lys Gln Arg
305 310 315 320
Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
325 330 335
Phe Glu Ser Gln Val Leu Ala Thr Ser Cys Ala Ala Glu Ala Ala Ser
340 345 350
Pro Ser Gly Pro Leu Arg Glu Arg Gly Lys Thr Pro Ala Thr Pro Thr
355 360 365
Ser Gln Phe Val Phe Ser Phe Pro Val Ser Val Gly Val His Ser Ala
370 375 380
Pro Ser Ser Leu Pro Tyr Leu His Ser Pro Ile Thr Thr Ser Pro Ser
385 390 395 400
Cys

<210> 1918
<211> 1209
<212> DNA
<213> Homo sapiens

<400> 1918
atgcagcatc accaccatca ccacgtgacg atggaggagc tgcgggagat ggactgcagt 60
gtgctcaaaa ggctgatgaa ccgggacgag aatggcggcg gcgcgggcgg cagcggcagc 120
cacggcaccc tggggctgcc gagcggcggc aagtgcctgc tgctggactg cagaccgttc 180
ctggcgcaca gcgcgggcta catcctaggt tcggtcaacg tgcgctgtaa caccatcgtg 240
cggcggcggg ctaagggctc cgtgagcctg gagcagatcc tgcccgccga ggaggaggta 300
cgcgcccgct tgcgctccgg cctctactcg gcggtcatcg tctacgacga gcgcagcccg 360
cgcgccgaga gcctccgcga ggacagcacc gtgtcgctgg tggtgcaggc gctgcgccgc 420
aacgccgagc gcaccgacat ctgcctgctc aaaggcggct atgagaggtt ttcctccgag 480
tacccagaat tctgttctaa aaccaaggcc ctggcagcca tcccaccccc ggttcccccc 540
agtgccacag agcccttgga cctgggctgc agctcctgtg ggacccccact acacgaccag 600
gggggtcctg tggagatcct tcccttcctc tacctcggca gtgcctacca tgctgcccgg 660
agagacatgc tggacgccct gggcatcacg gctctgttga atgtctcctc ggactgccca 720
aaccactttg aaggacacta tcagtacaag tgcatcccag tggaagataa ccacaaggcc 780
gacatcagct cctggttcat ggaagccata gagtacatcg atgccgtgaa ggactgccgt 840

gggcgcgtgc tggtgcactg ccaggcgggc atctcgcggt cggccaccat ctgcctggcc 900
tacctgatga tgaagaaacg ggtgaggctg gaggaggcct tcgagttcgt taagcagcgc 960
cgcagcatca tctcgcccaa cttcagcttc atggggcagc tgctgcagtt cgagtcccag 1020
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ggcaagaccc ccgccacccc cacctcgcag ttcgtcttca gctttccggt ctccgtgggc 1140
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tgttagtga 1209

<210> 1919
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 1919
cggtgccacg cccatggacc ttc 23

<210> 1920
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 1920
ctgagaattc attaaacttg tggttgctct tcacc 35

<210> 1921
<211> 169
<212> PRT
<213> Homo sapiens

<400> 1921
Met Gln His His His His His His Arg Cys His Ala His Gly Pro Ser
5 10 15
Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly
20 25 30
Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp Gly Tyr Pro Ser Pro Arg
35 40 45
Ser Thr Trp Asn Pro Asp Arg Arg Phe Trp Thr Pro Gln Thr Gly Pro
50 55 60
Gly Glu Gly Arg His Glu Arg His Thr Gln Thr Gln Asn His Thr Ala
65 70 75 80
Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln Gln
85 90 95
Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile Arg
100 105 110
Ile Gln Leu Arg Ser Gln Cys Ala Thr Trp Lys Val Ile Cys Lys Ser
115 120 125

Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu Asp Leu Gly Ser Gly Val
    130   135   140
Lys Val Lys Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala
145   150   155   160
Gly Glu Glu Gln Pro Gln Val
                165

<210> 1922
<211> 507
<212> DNA
<213> Homo sapiens

<400> 1922
atgcagcatc accaccatca ccaccggtgc cacgcccatg gaccttcttg tctcgtcacg 60
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tgttggggggt atccgagtcc cagaagcacc tggaaccccg acagaagatt ctggactccc 180
cagacgggac caggagaggg acggcatgag cgacacacac aaacacagaa ccacacagcc 240
agtcccagga gcccagtaat ggagagcccc aaaaagaaga accagcagct gaaagtcggg 300
atcctacacc tgggcagcag acagaagaag atcaggatac agctgagatc ccagtgcgcg 360
acatggaagg tgatctgcaa gagctgcatc agtcaaacac cggggataaa tctggatttg 420
ggttccggcg tcaaggtgaa gataatacct aaagaggaac actgtaaaat gccagaagca 480
ggtgaagagc aaccacaagt ttaatga 507

<210> 1923
<211> 3192
<212> DNA
<213> Homo sapiens

<400> 1923
cccacgcgtc cggcggtcgc cgcgggattt ggagctgcct agcctcgcgg tcgctttggc 60
agcatgtaag cagctgtttg ccaagaaccc aggtcactgc taagaaaggg tgccttcggg 120
agaagagtgt ccagaggata ccaatgccag atgcatctgg agttacactc agcactcgca 180
gtatgagaca ttgtgtgcca gcatctcttt ccttctggca aagactgtag ctctccaggt 240
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tgaactctct accatgaaca tggttctcgg cttatgaagg aattttaagt aaaacagtta 360
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cacaggagtt atcaggattt ttctggcacc aagtttaatt cttcttcgta cttctggtag 480
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cagaaactcc atctggactc ggatgctttt actgaagacc catctagctt caatcatctt 660
tagagtccat ccattctgga gagacctggc gtttgcagtt gcctcctgtg gccgtgtttt 720
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gaaaggaatg gagaccatta tggatgatga ggtgacaaag agattctcag cagaagaact 1320
ggagtcctgg aacctgctga gcagaaccaa ttataacttc cagtacatca gccttcggct 1380

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gtgggatggg ggcctgaaga gggagaaggt gaaggacacg ttcaaggagg agcagcagaa 2220
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tgaaaaaaa aa 3192

<210> 1924
<211> 2048
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2048)
<223> n = A,T,C or G

<400> 1924
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ggtagcttca gagcctccag tgcctgtggg gctggaggtg aagttggggg ccctggtgct 180
gctgctggtg ctcaccctcc tctgcagcct tggttccatc ggtgtgctgc gccggacagg 240
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ggggggcgtc tttttggcca cttgtctcct ggacctgctg cctgactacc tggctgccat 360
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ggccatgggc ttcttcctgg tcctggtgat ggagcagatc acactggctt acaaggagca 480
gtcagggccg tcacctctgg aggaaacaag ggctctgctg ggaacagtga atggtgggcc 540
gcagcattgg catgatgggc caggggtccc acaggcgagt ggagccccag caacccccctc 600
agccttgcgt gcctgtgtac tggtgttctc cctggccctc cactccgtgt tcgaggggct 660

ggcggtaggg ctgcagcgag accgggctcg ggccatggag ctgtgcctgg ctttgctgct 720
ccacaagggc atcctggctg tcagcctgtc cctgcggctg ttgcagagcc accttagggc 780
acaggtngtg gctggctgtg ggatcctgtt ctcatgcatg acacctctag gcatcgggct 840
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gatcaggtgc ccctgttctc ccttccctcc cccagttgtg gggaatagga aggaaagggg 1140
aagggaaata ctgaggacca aaaagttctc tgggagctaa agatagagcc tttggggcta 1200
tctgactaat gagagggaag tgggcagaca agaggctggc cccagtccca aggaacaaga 1260
gatggtcaag tcgctagaga catatcaggg gacattagga ttggggaaga cacttgactg 1320
ctagaatcag aggttggaca ctatacataa ggacaggctc acatgggagg ctggaggtgg 1380
gtacccagct gctgtggaac gggtatggac aggtcataaa cctagagtca gtgtcctgtt 1440
ggtcctdvgc ccnatttcag caccctgcca cttggagtgg acccctccta ctcttcttag 1500
cgcctaccct catacctatc ntccctcctc ccatctccta gggactggcg ccaaatggtc 1560
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taaagtgcca aacaaatccc cttcctcttt ctcaaagcac agtaatgtgg cactgagccc 1680
tacccagcac ctcagtgaag gggcctgct tgcctttttt tttgttnccc ggatcctggg 1740
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cgtaccctag gaatatgggg acatggacat ggtgtcccat gcccagatga taaacactga 1860
gctgccaaaa catttttttta aatacacccg aggagcccaa gggggaaggg caatgcctac 1920
ccccagcgtt atttttgggg agggagggct gtgcataggg acatattctt tagaatctat 1980
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aaaaaaaa 2048

<210> 1925
<211> 456
<212> PRT
<213> Homo sapiens

<400> 1925
Met Phe Leu Leu Leu Pro Phe Asp Ser Leu Ile Val Asn Leu Leu Gly
5 10 15
Ile Ser Leu Thr Val Leu Phe Thr Leu Leu Leu Val Phe Ile Ile Val
20 25 30
Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu Tyr Met Lys
35 40 45
Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg Met Glu Arg Gly
50 55 60
Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro Tyr Thr Asn Gly Ile
65 70 75 80
Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu Glu Ile Lys Glu Ile Arg
85 90 95
Arg Ser Gly Ser Ser Lys Ala Leu Asp Asn Thr Pro Glu Phe Glu Leu
100 105 110
Ser Asp Ile Phe Tyr Phe Cys Arg Lys Gly Met Glu Thr Ile Met Asp
115 120 125
Asp Glu Val Thr Lys Arg Phe Ser Ala Glu Glu Leu Glu Ser Trp Asn
130 135 140
Leu Leu Ser Arg Thr Asn Tyr Asn Phe Gln Tyr Ile Ser Leu Arg Leu
145 150 155 160
Thr Val Leu Trp Gly Leu Gly Val Leu Ile Arg Tyr Cys Phe Leu Leu
165 170 175
Pro Leu Arg Ile Ala Leu Ala Phe Thr Gly Ile Ser Leu Leu Val Val

180 185 190
Gly Thr Thr Val Val Gly Tyr Leu Pro Asn Gly Arg Phe Lys Glu Phe
195 200 205
Met Ser Lys His Val His Leu Met Cys Tyr Arg Ile Cys Val Arg Ala
210 215 220
Leu Thr Ala Ile Ile Thr Tyr His Asp Arg Glu Asn Arg Pro Arg Asn
225 230 235 240
Gly Gly Ile Cys Val Ala Asn His Thr Ser Pro Ile Asp Val Ile Ile
245 250 255
Leu Ala Ser Asp Gly Tyr Tyr Ala Met Val Gly Gln Val His Gly Gly
260 265 270
Leu Met Gly Val Ile Gln Arg Ala Met Val Lys Ala Cys Pro His Val
275 280 285
Trp Phe Glu Arg Ser Glu Val Lys Asp Arg His Leu Val Ala Lys Arg
290 295 300
Leu Thr Glu His Val Gln Asp Lys Ser Lys Leu Pro Ile Leu Ile Phe
305 310 315 320
Pro Glu Gly Thr Cys Ile Asn Asn Thr Ser Val Met Met Phe Lys Lys
325 330 335
Gly Ser Phe Glu Ile Gly Ala Thr Val Tyr Pro Val Ala Ile Lys Tyr
340 345 350
Asp Pro Gln Phe Gly Asp Ala Phe Trp Asn Ser Ser Lys Tyr Gly Met
355 360 365
Val Thr Tyr Leu Leu Arg Met Met Thr Ser Trp Ala Ile Val Cys Ser
370 375 380
Val Trp Tyr Leu Pro Pro Met Thr Arg Glu Ala Asp Glu Asp Ala Val
385 390 395 400
Gln Phe Ala Asn Arg Val Lys Ser Ala Ile Ala Arg Gln Gly Gly Leu
405 410 415
Val Asp Leu Leu Trp Asp Gly Gly Leu Lys Arg Glu Lys Val Lys Asp
420 425 430
Thr Phe Lys Glu Glu Gln Gln Lys Leu Tyr Ser Lys Met Ile Val Gly
435 440 445
Asn His Lys Asp Arg Ser Arg Ser
450 455

<210> 1926
<211> 324
<212> PRT
<213> Homo sapiens

<400> 1926
Met Gly Pro Trp Gly Glu Pro Glu Leu Leu Val Trp Arg Pro Glu Ala
5 10 15
Val Ala Ser Glu Pro Pro Val Pro Val Gly Leu Glu Val Lys Leu Gly
20 25 30
Ala Leu Val Leu Leu Leu Val Leu Thr Leu Leu Cys Ser Leu Gly Ser
35 40 45
Ile Gly Val Leu Arg Arg Thr Gly Ala Asn His Glu Gly Ser Ala Ser
50 55 60
Arg Gln Lys Ala Leu Ser Leu Val Ser Cys Phe Ala Gly Gly Val Phe
65 70 75 80
Leu Ala Thr Cys Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile

85 90 95

Asp Glu Ala Leu Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln

100 105 110

Glu Phe Ile Leu Ala Met Gly Phe Phe Leu Val Leu Val Met Glu Gln

115 120 125

Ile Thr Leu Ala Tyr Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu

130 135 140

Thr Arg Ala Leu Leu Gly Thr Val Asn Gly Gly Pro Gln His Trp His

145 150 155 160

Asp Gly Pro Gly Val Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser

165 170 175

Ala Leu Arg Ala Cys Val Leu Val Phe Ser Leu Ala Leu His Ser Val

180 185 190

Phe Glu Gly Leu Ala Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met

195 200 205

Glu Leu Cys Leu Ala Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser

210 215 220

Leu Ser Leu Arg Leu Leu Gln Ser His Leu Arg Ala Gln Val Val Ala

225 230 235 240

Gly Cys Gly Ile Leu Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu

245 250 255

Gly Ala Ala Leu Ala Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln

260 265 270

Ser Val Leu Glu Gly Met Ala Ala Gly Thr Phe Leu Tyr Ile Thr Phe

275 280 285

Leu Glu Ile Leu Pro Gln Glu Leu Ala Ser Ser Glu Gln Arg Ile Leu

290 295 300

Lys Val Ile Leu Leu Leu Ala Gly Phe Ala Leu Leu Thr Gly Leu Leu

305 310 315 320

Phe Ile Gln Ile